

SMILAUER, Adolf, inz. dr.; BYTOMOVA, Jirina, inz.

Contribution to the optimalization of operational planning.
Podn org 19 no.4:159-163 Ap '65.

1. Research Institute of Mechanical Engineering and Economics,
Prague.

SMILAUER, Jan

An atmospheric noise receiver for the 5 kHz band.
Studia geophys 7 no.1:74-78 '63.

1. Geophysical Institute, Czechoslovak Academy of Sciences,
Praha 4 - Sporilov, Bocni II.

L 3019-66 EWT(1)/FCC/EWA(h) GW

ACCESSION NR: AP5026875

CZ/0023/65/009/001/0061/0067

20

AUTHOR: Smilauer, Jan

B

TITLE: Calculation of ionospheric N(h) profiles from vertical sounding data of the Pruhonice Observatory

SOURCE: Studia geophysica et geodaetica, v.9, mno. 1, 1965, 61-67

TOPIC TAGS: F layer, ionospheric electron density, atmospheric sounding

ABSTRACT: The application is discussed of the method of calculating N(h) profiles for the purpose of determining the total content of electron concentration up to the height of the maximum of the F2 layer. A brief review is given of the transformations employed to permit the use of electronic computers. A detailed explanation is given of the selection of the model of the magnetic field, formed by four dipoles. Finally, the limitations of the method are evaluated, and a practical example of its application is given. Orig. art. has 12 formulas and 1 graph.

ASSOCIATION: Geophysical Institute, Czechosl. Acad. Sci., Prague

SUBMITTED: 16Jun64

ENCL: 00

SUB CODE: ES

NO REF SOV: 001

OTHER: 003

JPRS

Card 1/1

L 36173-56

ACC NR: AT6016649

SOURCE CODE: CZ/2512/54/012/000/0449/0461

AUTHOR: Smilauer, Jan

ORG: Geophysical Institute, Czechosl. Acad. Sci., Prague

TITLE: Cosmic noise-absorption meter in the 27.6-Mc band

SOURCE: Ceskoslovenska akademie ved. Geofysikalni ustav. Geofysikalni sbornik, v. 12, 1964. Prague, 1965. Prace, no. 196-214, 449-461

TOPIC TAGS: electromagnetic wave absorption, opacity meter, ionospheric absorption, noise absorption, cosmic noise

ABSTRACT: A review of the method of measuring electromagnetic-wave absorption in the ionosphere is presented, and the advantages and disadvantages of the method and the required equipment are cited. The cosmic noise-level meter, called the "riometer"—relative ionospheric opacity meter—designed at the Geophysical Institute of the Czechoslovak Academy of Sciences is described; its technical parameters are given,

Card 1/2

L 36173-56

ACC NR: AT6016649

and the important circuit diagrams are shown in the original article.
In conclusion, sample registration is given, and possible ways of
evaluation are suggested. Orig. art. has: 5 figures and 9 formulas.
[Based on author's abstract.] [KS]

SUB CODE: ⁰⁴⁴20/ SUBM DATE: 28Feb64/ ORIG REF: 002/ OTH REF: 005/

SOV REF: 002/

Card

2/2MLP

NYSENKO, Nikolay Trofimovich; SMILDIN, P.M., red.; SARMATSKAYA,
G.I., red.izd-va; KAZANSKAYA, L.I., tekhn. red.

[Wood plastics; technology, properties and use] Drevesnye
plastmassy; tekhnologiya, svoistva i primeneniye. Moskva,
Izd-vo "Lesnaya promyshlennost'," 1964. 105 p.
(MIRA 17:3)

SMILEK, Pavel

Methods of operational control of the molecular weight of fluoroplasts. Chem prum 13 no.9:498-501 S '63.

1. Vyzkumny ustav gumarenske a plastikarske technologie, Gottwaldov.

L 31473-66 EWP(v)/EWP(j)/EWP(k)/EWP(h)/EWP(l) IJP(c) RM
ACC NR: AP6023170 SOURCE CODE: CZ/0008/65/000/011/1365/1369
AUTHOR: Homolka, Karel; Smilek, Pavel 3/13
ORG: Research Institute for Rubber and Plastics Technology, Gottwaldov (Vyzkumny
ustav gumarenske a plastikarske technologie)
TITLE: Automatic apparatus for differential thermal analysis of organic compounds 14
SOURCE: Chemicke listy, no. 11, 1965, 1365-1369
TOPIC TAGS: thermal analysis, organic chemistry
ABSTRACT: The authors describe an apparatus which they designed; it
is used to conduct differential thermal analysis at operating
temperatures from 20°C to 500°C. The components of the apparatus
are of Czechoslovak manufacture. The recorded temperature is
accurate within 0.3°C; the instrument is suitable also for the
maintaining of required temperatures. The inaccuracy of the
reaching of certain temperatures in a given time was within 10%.
Orig. art. has: 9 figures. [JPRS]
SUB CODE: 07, 20 / SUBM DATE: 07Sep64 / ORIG REF: 001

Card 1/1mc

0915

1381

SMILENOV, B.

SMILENOV, B. Improving the measuring in the repairs of motorsl pl 24
Vol. 7. no. 12. Dec. 1956. MASHINIZIRANO ZEMEDELIE. Sofia, Bulgaria

SOURCE: European Accessions List (EEAL) Vol. 6, No. 4--April 1957

SMILEVSKI, B.

SADIKARIĆ, A., dr.; SMILEVSKI, B., dr; TADZER, I.S., doc.

Tuberculous leukemoid syndrome. Tuberkuloza, Beogr. 6 no.1:3-7
Jan-Feb 54.

1. Patofiziološki institut, Medicinski fakultet - Skoplje.

(TUBERCULOSIS, blood in

*leukemoid reaction)

(LEUKOCYTES

*leukemoid reaction in tuberc.)

SMILEVSKI, S.

SMILEVSKI, S. Livestock exhibitions and the work of the commission for evaluating cattle. P. 31

Vol. 7, no. 1, Jan. 1955
SOCIJALISTICKO ZEMJODELSTVO,
AGRICULTURE
Macedonia

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, (EEAL), VOL, 4, no. 9
Sep. 1955

L 1118-66 EWT(1)/EWT(m)/ETC/EWG(m)/T/EWP(t)/EWP(b)/EWA(c) IJP(c) RDW/JD/GG/GS
 ACCESSION NR: AT5020482 UR/0000/64/000/000/0362/0371

AUTHORS: Vishchakas, Yu. K. ; Smilga, A. A.

TITLE: Contact resistance of cadmium selenide and an electrode

SOURCE: Mezhevuzovskaya nauchno-tekhnicheskaya konferentsiya po fizike
poluprovodnikov (poverkhnostnyye i kontaktnyye yavleniya). Tomsk, 1962. III-44,55
Poverkhnostnyye i kontaktnyye yavleniya v poluprovodnikakh (Surface and contact
 phenomena in semiconductors). Tomsk, Izd-vo Tomskogo univ., 1962, 362-371

TOPIC TAGS: cadmium selenide, contact resistance, photoconductivity, silver,
gold, aluminum, indium, gallium, single crystal

ABSTRACT: Contact resistance between an electrode and CdSe and the methods of
 obtaining an ohmic contact were investigated in the kinetic study of the photo-
 conductivity of CdSe. Preparation of polycrystalline films of CdSe and applica-
 tion of electrodes have been described by Yu. K. Vishchakas, A. A. Smigla, P. P.
 Brazdzhynas (Uchenyye zapiski Vil'nyusskogo gosudarstvennogo universiteta, 33,
 139, 1960) and also by P. P. Brazdzhynas and Yu. K. Vishchakas (Trudy AN Lit.
 SSR, seriya B4, 21, 1956). One portion of polycrystalline films underwent

Card 1/3

L 1118-66

ACCESSION NR: AT5020482

thermal treatment. Ag, Au, Al, In, and Ga electrodes were applied by evaporation in vacuum. Irradiation of the specimens with electrons or ions was conducted in a gas-discharge tube fed by a high voltage rectifier. By using a proper diaphragm it was possible to irradiate either the total surface of the semiconductor or only the subelectrode region. The contact resistance of the specimens was determined by the ratio $\gamma = \frac{R_0}{R_3}$, where R_0 is electrical resistance measured

by the usual method, and R_3 is electrical resistance measured by the double-sounding method. Au, Ag, and Al electrodes and the film form a stable, time-independent contact resistance, which constituted about 60% of the resistance of the film for the contact Au-CdSe, 20% for Al-CdSe, and 10% for Ag-CdSe. Ga and In electrodes plus CdSe formed a time-dependent contact resistance constituting about 30% of the film resistance for In-CdSe and Ga-CdSe. To obtain an ohmic contact of CdSe single crystal and an electrode, the subelectrode region was bombarded with a glow discharge and was covered with an evaporative film of In and then with an In amalgam (95% In + 5% Hg). The observed phenomenon of the ohmic contact was previously explained by the model of F. A. Kroger, G. Diemer, and H. A. Klasens (Phys. Rev. 103, 279, 1956). Orig. art. has: 3 tables and 4 figures.

Card 2/3

L 1118-65

ACCESSION NR: AT5020482

ASSOCIATION: Katedra fiziki poluprovodnikov, Vil'nyuskiy gosuniversitet in.
Kapsukas (Department of Semiconductor Physics, Vilnius State University)

SUBMITTED: 06Oct64

ENCL: 00

SUB CODE: EC

NO REF SOV: 009

OTHER: 007

KL
Card 3/3

L 22987-66 EWT(1)/EWT(m)/ETC(f)/EWP(t), EWG(m) IJP(c) RDW/SD/AT

ACC NR: AT6012825

SOURCE CODE: UR/2910/65/005/001/0154/0156

AUTHOR: Smilga, A. A.--Smilga, A.; Vishchakas, Yu. K.--Viscakas, J.

46
B+1

ORG: Vilnius State University im. V. Kapsukas (Vil'nyusskiy Gosudarstvennyy universitet)

TITLE: High-voltage ^{2/}photovoltaic effect in cadmium selenide polycrystalline films

SOURCE: AN LitSSR. Litovskiy fizicheskiy sbornik, v. 5, no. 1, 1965, 154-156

TOPIC TAGS: photoelectric effect, photo emf, cadmium selenide

ABSTRACT: Larger-than-gap photovoltages reaching more than 20 v per 1 cm of sample length have been discovered in cadmium selenide thin films. The samples were prepared by vacuum evaporation, with the temperature of the glass substrate varied between +20 to 250C, and the angle of deposition from 0° to 75°. The value of the photovoltages depends strongly on the angle of deposition and on the thickness of the films and is directly proportional to the size of the samples. The polarity of the emf depends on the position of the substrate with regard to the molecular beam, with the + sign present on the substrate's far end. Orig. art. has: 2 figures. [ZL]

SUB CODE: 10/ SUBM DATE: 16Jun64/ ORIG REF: 008/ OTH REF: 005/ ATD PRESS:

4237

Card 1/1 LC

REF(a)/CIP(t)/EPI IJP(c) JD

ACC NO: AR6031887

SOURCE CODE: UR/0058/66/000/006/E095/E095

AUTHOR: Vaytkus, Yu. Yu.; Vishchakas, Yu. K.; Persianov, I. S.; Smilga, A. A.

TITLE: Photoconductivity anisotropy of cadmium selenide single crystals

19

SOURCE: Ref. zh. Fizika, Abs. 6E743

REF SOURCE: Lit. fiz. sb., v. 5, no. 4, 1965, 491-494

TOPIC TAGS: cadmium selenide, cadmium selenide photoconductivity,
photoconductivity anisotropy

ABSTRACT: The anisotropy of photoconductivity in CdSe single crystals is investigated. In the (1010) plane the photoconductivity relationship in the direction of axes a and c is 2:1, while in the (0001) plane anisotropy varies periodically as a function of the shape of the crystal cross-section. [Translation of abstract]

SUB CODE: 20/

Card 1/1 nst

SMILGA, Bol'demar Petrovich; FEDCHENKO, V., red.; MIKHAYLOVSKAYA, N., tekhn.
red.

[Obvious? No, not yet explored] Ochevidnoe? Net, eshche neizvedan-
noe. Moskva, Izd-vo TsK VLKSM "Molodaia gvardiia," 1961. 351 p.
(MIRA 14:9)

(Relativity)

SMILGA, I.P.

DIKENSHTAYN, G.Kh.; KIRBYCHEV, V.D.; SMILGA, I.P.; SHEBUYEVA, I.N.

Tectonics of the Pripet fault. Geol. nefi 1 no.4:7-14 Ap '57.
(Pripet Valley--Geology, Structural) (MLBA 10:8)

SMILGA, J.; LOZA, V.

Third Conference on the Problems of Leptospirosis. Vestis Latv
ak no.8:180-182 '60. (KEAI 10:9)

(LEPTOSPIROSIS)

SM LGA, Kh. V.

6
2 M aug.
452C (f)

15
Cyclohexanone-formaldehyde resins. A. A. Blagonra-
tova, G. A. Levkovich, and Kh. V. Smilga. *Khim. Prom.*
1953, No. 5, 23-4; *Referat. Zhur., Khim.* 1956, Abstr. No.
27268. The polycondensation of the cyclohexanone and
HCHO is carried out in alk. media. Excess of HCHO re-
sults in water-sol. and of cyclohexanone-water-insol. resins.
The second type, being more acceptable for lacquer formula-
tion, is studied, and the results are given. The condensa-
tion of cyclohexanone (98.5% of ketone) and 15% aq.
HCHO soln. is carried out at 60-6° with NaOH as catalyst.
The effect of the catalyst quantity on the process and the
character of formed products, the duration of the process,
and the ratio of the reacting components are studied. The
synthesized resins are characterized by their m.p.s., hy-
droxyl no., water resistance, and soly. in a mixt. of alc. and
butyl acetate. The water resistance of the products sharply
increases with the increase of the NaOH. The resins ob-
tained when the min. alkali (2.5%) is used form films which
crack easily in time. The resins are removed from the con-
densation product by extg. with a mixt. of xylene and
BuOH, washing, and distg. off the solvents. The cyclohex-
anone-HCHO resins are transparent, gold-colored products
m. 90-100°, sol. in dichloroethane, ketones, turpentine,
complex esters, etc., and are compatible with cellulose esters,
polyesters, and urea-HCHO resins. Addn. of these resins
to lacquers speeds up their drying and gives the coatings
hardness, high gloss, and polishing properties. N.Y.

BAYBAYEVA, S.T.; SMILGA, Kh.V.; TOMILOVA, N.D.

Determining methyl groups and formaldehyde content of phenol- and
cresol-formaldehyde resins. Lakokras.mat.i ikh prim. no.2:52-54
'62. (MIRA 15:5)

(Resins, Synthetic—Testing)

USSR/Scientific Organization - Conferences

Card 1/1 Pub. 118 - 5/14

Authors : Sandomirskiy, V. B., and Smilga, V. P.

Title : Conference on electron phenomena in adsorption and catalysis

Periodical : Usp. fiz. nauk 55/1, 111-120, Jan 1955

Abstract : A detailed report is presented on the conferences held between April 16 and 19, 1954 at the Institute of Physical Chemistry of the Academy of Sciences, USSR. The major topics discussed during these meetings were: electron phenomena in catalysis and adsorption, general problems of the theory of catalysis, effect of illumination on the adsorbability of solid bodies, connection between electrical conductivity and catalytic activity, nature of active surfaces, etc. The names of scientists present at these meetings are listed.

Institution :

Submitted :

5(4)

AUTHORS:

Deryagin, B. V., Corresponding Member, SOV/20-121-5-31/50
Academy of Sciences, USSR, Smigla, V. P.

TITLE:

The Electron Theory of the Adhesion of Metals Connected
by a Semiconductor Layer (Elektronnaya teoriya adgezii
metallov, soyedinennykh poluprovodnikovoy prosloykoy)

PERIODICAL:

Doklady Akademii nauk SSSR, 1958, Vol 121, Nr 5,
pp 877 - 880 (USSR)

ABSTRACT:

Hitherto, the double layer and the adhesion forces
of a thin semiconducting sheet (which is inclosed
between two different metals) have been investigated
only qualitatively. The authors use the mathematical
analogy of this problem with the problem of the
electrostatic interaction of two differently charged
surfaces which are separated by a electrolyte layer.
This paper deals only with the case in which there are
only carriers of one kind in the semiconductor. Only a
small part of the impurity centers is assumed to be
ionized. In this case, the equilibrium distribution of the

Card 1/3

The Electron Theory of the Adhesion of Metals Connected by a Semiconductor Layer SOV/20-121-5-31/50

charges is determined by the equation of Poisson (Poisson) - Boltzmann (Boltzmann). The adhesion force of the film with respect to any metal is equal to

$F = \frac{\epsilon^2 E_{\text{boundary}}^2}{8\pi}$ where E_{boundary} denotes the field

strength within the semiconductor on the boundary with the corresponding metal. The problem, therefore, consists of the determination of E on the right and left boundaries of the films. Then boundary conditions for the above mentioned Poisson-Boltzmann equation are given explicitly. This equation together with the boundary conditions is absolutely equivalent to the corresponding problem in the theory of the heterocoagulation of colloids for the interaction through a binary symmetric electrolyte. A certain difference between the 2 analogous metals is then discussed. By a variation of the thickness of the film the adhesion force is changed equally for both of the metals. The mathematical calculations may be carried out as in the papers on the theory of heterocoagulation. The adhesion

Card 2/3

The Electron Theory of the Adhesion of Metals Connected by a Semiconductor Layer SOV/20-121-5-31/50

of the film increases monotonously if H decreases. The following interesting conclusion may be drawn from the above given considerations: If the thickness of the film (enclosed between 2 different metallic surfaces) is adequately diminished, the density of the double layer (and therefore also the adhesion forces) can always be increased. There are 4 figures and 4 references, all of which are Soviet.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry AS USSR)

SUBMITTED: April 8, 1958

Card 3/3

SOV/20-122-6-26/49

The Rôle of the Surface Properties of a Semiconductor in Adhesion Phenomena

of a single type. To be precise, an electron-semiconductor is investigated. The position of the surface levels is shown by a schematical drawing. This scheme corresponds to a negatively charged surface. A second drawing shows the d-zone-scheme for the case in which contact between the semiconductor and the metal is established through a narrow gap. Another case is, however, possible, in which electric field strength has different signs on the two sides of the semiconductor surface. According to the authors' opinion, it is convenient to subdivide all cases of contact between a semiconductor and a metal into two groups: 1) The electric field has the same direction on both sides of the semiconductor surface; 2) It has different directions. Calculations are followed step by step and numerical results are given by a table. Field strength in the gap increases rapidly with an increasing number of centers. At the point of contact fields occur which cause an adhesive force amounting to a two-figure number of kilograms per cm^2 . There are 3 figures, 1 table, and 4 references, 3 of which are Soviet.

Card 2/3

SMILGA, V. P. and DERYAGIN, B. V.

"The Role of Electrons in the Adhesion Theory."

report presented at the Section on Colloid Chemistry, VIII Mendeleev Conference of General and Applied Chemistry, Moscow, 16-23 March 1959.
(Koll. Zhur. v. 21, No. 4, pp. 509-511)

S/004/60/000/007/001/003
A104/A029

AUTHORS: Dmitriyev, A.; Smilga, V.; - Physical Scientific Workers

TITLE: On Star-Bound Travel

PERIODICAL: Znaniye-Sila, 1960, No. 7, pp. 30 - 33

TEXT: This article is a dispute on the possibility and technical requirements of astronautics as asserted by A. Dmitriyev and denied by V. Smilga. The former refutes the opinion that distances of many light years will prove an insurmountable obstacle and in referring to the theory of relativity points out the enormous gain of time for passengers of a space ship travelling at a speed close to C (velocity of light). From our point of view time passes slower in such a ship, i.e., the faster the ship the slower the passage of time and a decade on the earth is equivalent to only 1 year in a space ship. Rockets driven by chemical fuel are unsuitable for space travel whereas ionic (electronic), nuclear and photonic rockets deserve consideration. The first type would develop a powerful thrust by projection of electrically charged particles at 150 - 250,000 km/sec, the second type by projection of powerful flows of high-powered nuclear particles. These can be obtained either by splitting of heavy nuclei or

Card 1/3

On Star-Bound Travel

S/004/60/000/007/001/003
A104/A029

by a synthesis of light nuclei into heavy ones. Finally, photonic rockets would achieve the highest possible speed by development and projection of powerful electromagnetic radiation. Any process resulting in strong electromagnetic radiation can serve this purpose, though most hopes are centered on the reaction of annihilation caused by the contact of electrons and positrons. This reaction ceases the individual existence of these particles which become a part of the electromagnetic Gamma-radiation and produce an energy many times greater than that of most effective atomic processes. Having mastered the production of necessary quantities of positrons and the difficult problem of their storage and transportation man will also learn to use them as the best imaginable type of fuel. The electromagnetic radiation derived by annihilation of electrons and positrons is liberated as Gamma-quanta; by developing a method of collecting them in directed flow-beams the design of a photonic rocket will become reality. The amounts of "fuel" required to accelerate the rocket up to required speeds are shown in Table 1. Contrary to A. Dmitriyev, V. Smilga categorically rejects the possibility of photonic rockets in view of the enormous weight of such a rocket and the even greater weight of necessary fuel. The annihilation process is not considered a solution in view of the impossibility to design a safe container for positrons. The hope that the "flying tube", a direct-flow photonic engine might be

Card 2/3

SMILGA, V.P.

On the theory of the heterocoagulation of colloids in
solutions of complex electrolytes. Koll. zhur. 22
no. 5:615-624 8-0 '60. (MIRA 13:10)

1. Institut fizicheskoy khimii AN SSSR, Moskva.
(Colloids) (Coagulation)

SMILGA, V.P.; CHIZMADZHEV, Yu.A.

Steady states of distributed electrochemical systems and
their stability. Dokl.AN SSSR 133 no.3:633-636 J1 '60.
(MIRA 13:7)

1. Institut elektrokhemii Akademii nauk SSSR. Predstavleno
akademikom A.N.Frumkinym.
(Electrochemistry)

SMILGA, V. P., Cand. Phys-Math. Sci. (diss) "Electron Theory of Adhesion." Moscow, 1961, 8 pp (Acad. of Sci. USSR, Institute of electro-chemistry) 200 copies (KL Supp 12-61, 253).

SMILGA, V P

PHASE I BOOK EXPLOITATION

SOV/5590

42

Konferentsiya po poverkhnostnym silam. Moscow, 1960.

Issledovaniya v oblasti poverkhnostnykh sil; sbornik dokladov na konferentsii po poverkhnostnym silam, aprel' 1960 g. (Studies in the Field of Surface Forces; Collection of Reports of the Conference on Surface Forces, Held in April 1960) Moscow, Izd-vo AN SSSR, 1961. 231 p. Errata printed on the inside of back cover. 2500 copies printed.

Sponsoring Agency: Institut fizicheskoy khimii Akademii nauk SSSR.

Resp. Ed.: B. V. Deryagin, Corresponding Member, Academy of Sciences USSR; Editorial Board: N. N. Zakhavayeva, N. A. Krotova, M. M. Kusakov, S. V. Nerpin, P. S. Prokhorov, M. V. Talayev and G. I. Fuks; Ed. of Publishing House: A. L. Bankvitser; Tech. Ed.: Yu. V. Rylina.

PURPOSE: This book is intended for physical chemists.

Card 1/8

Studies in the Field of Surface Forces (Cont.)

SOV/5590

I. GENERAL PROBLEMS OF SURFACE FORCES

Deryagin, B. V. Surface Forces and Their Effect on the Properties of Heterogenous Systems 11

Kusakov, M. M., and L. I. Mekenitskaya. Investigation of the State of Bound Water in Oil Traps 17

Shcherbakov, L. M. General Theory of Capillary Effects of the Second Order 23

Dukhin, S. S. Surface Forces of a Diffusive Nature Close to Liquid Interfaces 38

II. POLYMER ADHESION

Korotova, N. A., and L. P. Morozova. Investigation of the Adhesive Binding of Polymers by Means of the Luminescence Method 48

Card 3/8

Studies in the Field of Surface Forces (Cont.)

SOV/5590

Voyutskiy, S. S., V. L. Vikula, V. Ye. Gul', and Ho
Yün-tsui. Effect of Molecular Weight, Polydispersion,
and Polarity of High Polymers on Their Adhesion to High
Molecular Substrata

55

Ketnik, M. S. Role of Surface Forces in Mica Crystals

66

Smilga, V. P. Double Layer on the Boundary of Solids
Characterized by a Donor-Acceptor Bond

76

Krotova, N. A., and L. P. Morozova. Applying Infrared
Spectroscopic Methods to Study the Interaction Between
an Adhesive and Its Lining (Polymer - Glass)

83

Deryagin, B. V., and I. N. Alcyonikova. Measurement of the
True Density of a Double Electric Layer at the Metal -
Dielectric Boundary of Separation

89

Card 4/8

54400

31898
S/643/61/000/000/003/007
E039/E485

AUTHOR: Smilga, V.P.

TITLE: Double layer on the boundary of solid bodies
dependent on donor-acceptor coupling

SOURCE: Konferentsiya po poverkhnostnym silam. Moscow, 1960
Issledovaniya v oblasti poverkhnostnykh sil; sbornik
dokladov na konferentsii, Moscow, Izd-vo AN SSSR, 1961.
At head of title: Akademiya nauk SSSR. Institut
fizicheskoy khimii. 76-82

TEXT: The theory of double electric layers arising on contact
of solid bodies has been investigated previously for solid bodies
of periodic structure, while little interest has been displayed in
amorphous bodies. As the extrapolation of results obtained for
metals and semiconductors is not satisfactory this investigation
on the formation of double electric layers on contacting amorphous
bodies was undertaken. It is assumed that the surface layer of
one body is saturated by donors and the other by acceptor
molecules. An energy diagram of donor and acceptor levels is
shown in Fig.1, where d_1 and d_2 are the distances of donors
and acceptors from the boundary division and $w_0(d_1, d_2, \epsilon_1, \epsilon_2)$
Card 1/54

Double layer on the boundary ...

31898
S/643/61/000/000/003/007
E039/E485

equation that the process of forming double layers is self-regulating. There is a transfer of electrons from donor to acceptor levels, with an absorption of energy ($w_0 < 0$), i.e. the reaction is endothermic; the endothermic nature grows with the formation of the double layer and equilibrium is achieved more quickly (at small values of n) than if the energy absorbed by the reaction remains unchanged. If $w_0 > 0$ the reaction is at first exothermic and equilibrium is achieved when $e\beta V_n$ exceeds w_0 . The analysis is continued by putting

$$\gamma = 4\pi e^2 \beta \left(\frac{d_1}{\epsilon_1} + \frac{d_2}{\epsilon_2} \right)$$

in Eq.(A), hence

$$\frac{n}{N_d} = \frac{1}{1 + e^{-\frac{w_0 - \gamma n}{kT}}} \quad (11a)$$

Examining n as a function of temperature T , we can see that when $\gamma n < w_0$, n falls with increasing value of T , but when $\gamma n > w_0$, n grows monotonically with T . The solution of

Card 3/54

25322

S/020/61/138/005/022/025
B101/B231

5.4400

AUTHOR: Smilga, V. P.

TITLE: The double layer caused by donor-acceptor bond at the interface of amorphous bodies

PERIODICAL: Akademiya nauk SSSR. Doklady, v. 138, no. 5, 1961, 1147-1150

TEXT: The author studies the formation of an electric double layer as a result of contact between polymers or amorphous bodies, with the surface of the one body being saturated with donor and that of the other one with acceptor molecules, the concentration per cm^2 amounting to N_d , N_a , respectively, W_0 denoting the difference between the energetic levels of the electron in the donor and acceptor center, d_1 and d_2 the distance of donors and acceptors from the interface. Due to the fact that the reaction spreads simultaneously over the entire surface, each donor-acceptor pair is placed in an electrostatic field created by other pairs which have entered into reaction. The following is put down for the difference of

Card 1/4

The double layer caused by... 25322

S/020/61/138/005/022/025
B101/B231

the magnitude order of n can be estimated as ranging from 10^{11} to 10^{13} , i.e., the charge density of the double layer corresponds to 10^2 - 10^4 CGSE. The following is substituted into Eq. (6); $\gamma = 4\pi e^2 \beta (d_1/\epsilon_1 + d_2/\epsilon_2)$ which results in $n/N_d = 1 / \langle 1 + \exp\{-(W_0 - \gamma n)/kT\} \rangle$ (7). The graphic solution of this equation is shown in Fig. 2. The result obtained shows that under otherwise unchanged conditions the exothermic reaction can be transformed to an endothermic one by increasing the initial concentration of the donor centers. Analogous processes might be of importance for the chemisorption as well as at the interface solid body - electrolyte. The author mentions N. A. Krotova and L. P. Morozova and thanks B. V. Deryagin for his interest shown in the matter. There are 2 figures and 4 Soviet-bloc references. 4

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry, Academy of Sciences USSR)

PRESENTED: February 8, 1961, by A. N. Frumkin, Academician.

Card 3/4

DERYAGIN, B.V.; SMILGA, V.P.

Effect of the electromagnetic delay of molecular attraction on
the coagulation concentrations of electrolytes. Dokl. AN SSSR
153 no.2:377-378 N '63. (MIRA 16:12)

1. Institut fizicheskoy khimii AN SSSR. 2. Chlen-korrespondent
AN SSSR (for Deryagin).

DERYAGIN, B.V.; SMILGA, V.P.

Effect of electromagnetic lag on the coagulating concentrations
of electrolytes. Koll. zhur. 26 no.5:589-591 S-C '64. (MIRA 17:10)

1. Institut fizicheskoy khimii AN SSSR, Moskva.

MARTYNOV, G.A.; SMILCA, V.P.

Interaction between colloidal particles having dipole molecules
adsorbed on their surface. Koll. zhur. 27 no.2:250-253 Mr.-Ap '65.
(MIRA 18:6)

1. Institut fizicheskoy khimii AN SSSR, Moskva.

1. 1. 1. 1. 1.

"Obtain a list of potential sources of funds abroad in the form of a list." 10. 10.

[illegible]

Inst. of Microbiology, AS Latvian SSR/Riga

M.
SMILGA, Ya. [Smilga, J.] (Riga); LOZHA, V. [Loza, V.] (Riga)

Hemolytic test for the diagnosis of leptospirosis. In Russian.
Vestis Latv ak no.4:159-162 '60. (REAI 10:7)

1. Akademiya nauk Latvyskoy SSR, Institut mikrobiologii.
(HEMOLYSIS AND NEMOLYSINS) (LEPTOSPIROSIS)

~~SMIGEL'SKIY, O.~~
SMIGEL'SKIY, O.

6757* (Russian.) On the Problem of Activity Coefficients for
Binary Mixtures of Non-Electrolytes. K voprosu o koefitsien-
takh aktivnosti dlia binarnykh smesei neelektrolitov. E.
Bukenshtein and O. Smigel'skii. Doklady Akademii Nauk SSSR,
v. 111, Dec. 21, 1956, p. 1282-1283.

An attempt to derive a more satisfactory mathematical equation
for studying mixtures of methylethylacetone N heptane.

3 2

Chem.

RM
myi

KONDRAT'YEV, Afanasiy Borisovich, kand.tekhn.nauk; YERSHOVA, Galina Nikolayevna, inzh.; MEN'SHIKOV, Ivan Alekseyevich, prof., doktor tekhn.nauk; MOSKOVSKIY, Mikhail Ivanovich, kand.tekhn.nauk; SOBOLEV, David Iosifovich, kand.tekhn.nauk; SMIL'GEVICH, Petr Kazimirovich, inzh.; SHIROKOV, Boris Ivanovich, kand.sel'sko-khoz.nauk; Prinsipali uchastiye: TREBIN, Boris Nikolayevich, inzh.; OSOBOV, Vadim Izrailevich, inzh. BRIK, P.A., prepodavatel', retsenzent; IVANOV, V.A., prepodavatel', retsenzent; KOGANOV, A., prepodavatel', retsenzent; KONONOV, B.V., prepodavatel', retsenzent; MARKOV, G.Ya., prepodavatel', retsenzent; OSIPOV, G.P., prepodavatel', retsenzent; RYABOV, P.I., prepodavatel', retsenzent; SOLOV'YEV, K.Ya., prepodavatel', retsenzent; SOROKIN, V.Ya., prepodavatel', retsenzent; BANNIKOV, P., red.; VORONKOVA, Ye., tekhn.red.

[Manual for collective farm machinery operators] Spravochnik mekhanizatora sel'skogo khoziaistva. Penza. Penzenskoe knizhnoe izd-vo, 1959. 610 p. (MIRA 14:2)

1. Saratovskiy institut mekhanizatsii sel'skogo khozyaystva imeni M.I.Kalinina (for Brik, Ivanov, Koganov, Kononov, Markov, Osipov, Ryabov, Solov'yev, Sorokin).
(Agricultural machinery) (Farm mechanization)

SMILIANOV, G., Prof.; BOIANOV, B., prof.; NIKOLOV, B.; KRAIOVSKI, St.;
AVRAMOV, D.; BENDERLIEV, M.; KHRISTOZOV, T.; GERSHVA, N.; RUSKOV, R.;
LIKOV, Ch.

Considerations of the social position of edentulous in Bulgaria.
Stomatologia, Sofia. No.1:41-49 1955.

1. Iz katedrata po ortopedichna stomatologia pri Visshia med.
institut V. Chervenkov --Sofia, Zav. katedrata: prof. G. Smil-
ianov.

(~~TEETH~~,

edentulous, soc. aspects in Bulgaria)

Smiljaković, Jovan J

✓ Influence of fertilizing and the depth of plowing upon the yields of maize. Jovan J. Smiljaković (Univ. Belgrade, Zemun, Yugoslavia). *Zemljstvo i Biljka* 2, 145-56(1953). — Maize was planted after the seed beds were plowed to depths of 20 and 25 cm., and fertilized with (1) nothing; (2) various ams. of manure (I); (3) various ams. of both I and N-K-P fertilizers; (4) various ams. of N-K-P fertilizers. The maize planted in the soil plowed to a 25-cm. depth always showed better results (11-27.7% more). I showed good results, and higher ams. of I gave better results, and I + N-K-P also gave good results. N-K-P alone had hardly any effect. *Werner Jacobson*

Agar /

~~SERIE, SMILJAN~~
SMILJAN JERIC

CZECHOSLOVAKIA/Electronics - Electron and Ion Emission

H-2

Abs Jour : Ref Zhur - Fizika, No 6, 1958, No 13574

Author : Jeric Smiljan
Inst : Not Given
Title : Secondary Electron Emission

Orig Pub : Obz. mat. in fiz., 1956-1957, 5, No 3, 117-126

Abstract : Popular survey on secondary emission and its applications.

Card : 1/1

BUTIGAN, N.; SMILJANIC, B.; STANCIC-ROKOTOV, F.

Potentiated local anesthesia and its role in modern surgery. Acta
chir. Jugosl. 8 no.3:232-239 '61.

1. Kirurski odjel Opce bolnice "Dr. M.Stojanovic" u Zagrebu
(Predstojnik dr. D.Riessner).
(ANESTHESIA LOCAL) (HIBERNATION ARTIFICIAL)

RIESSNER, D.; SMILJANIC, B.

Repeated mitral commissurotomy through the right thoracic approach. Acta chir. Iugosl. 10 no.1:24-29 '63.

1. Kirurski odjel Opce bolnice "Dr M. Stojanovic" u Zagrebu
(Predstojnik dr D. Riessner).
(MITRAL STENOSIS) (HEART SURGERY)

S

SMILJANIC, B.; BELANCIC, I.; SIPUS, N.

Neurinoma of the stomach. Acta chir. Iugosl. 11 no.1:59-68
O '64.

1. Kirurski odjel (v.d. Sefa dr N. Popov) Zavod za radiologiju
(Predstojnik prof. dr. S. Kadrnka) i Odjel za patologiju (Sef
pri, dr M. Knezevic) Opce bolnice Dr M. Stojanovic u Zagrebu.

SMILJANIC, Dusan

Destructive action of the house fungus. Publ Teh fak
Sarajevo 2 no.2:5-12 '59.

SMILJANIC, D.

Flat roofs. Publ Teh fak Sarajevo 3 no. 1:5-24 '60.

ACC NR: AP6025837

SOURCE CODE: YU/0020/65/000/004/0017/0021

AUTHOR: Brezinscak, Marijan—Brezinshchak, Mariyan (Graduate engineer; Director); 66
Smiljanic, Danijel—Smilyanich, Daniyel (Graduate engineer) B

ORG: Plant for Development of Elements for Nuclear Equipment, Institute "Rade Koncar"
of Electrotechnology, Zagreb (Zavod za razvoj opreme za nuklearna postrojenja
Elektrotehnickog instituta poduzeca "Rade Koncar")

TITLE: Development of electromagnets for nuclear research 19

SOURCE: Nuklearna energija, no. 4, 1965, 17-21

TOPIC TAGS: nuclear research, electromagnet, particle beam, charged particle

ABSTRACT: Electromagnets developed for use in nuclear research are described. Quadrupole magnets were designed to produce magnetic fields for the focusing of beams of charged elementary particles. The excitation coils of almost all the magnets developed consist of flat coils separately insulated and impregnated. Both solid steel and laminated steel cores are used. Orig. art. has: 16 figures. [NA]

SUB CODE: 09, 18, 20 / SUBM DATE: none

Card 1/1 98

0916 0968

SMILJANIC, Dusan, inz. arh., redovni profesor za predmet "Arhitektonske konstrukcije" (Kalemova 4, Sarajevo)

Protection of buildings against underground water and humidity.
Publ Teh fak Sarajevo 4 no. 2:37-59 '61.

1. Faculty of Architecture and Urban Planning, University of Sarajevo.

SMILJANIC, Gabro, ing. (Zagreb, Srebrnjak 166)

Device for the automatic recording of the characteristics of Geiger-Muller counters. Elektr vest 27 no.11/12 N-D '59. (EEAI 10:1)
(Geiger-Muller counters) (Radioactivity)

SMILJANIC, M.
SMILJANIC, M.

Smiljanic, M.; Rikovski, I.; Pusin, N.

"Refractive Index of Some Organic Compounds at Various Temperatures And Its Temperature Coefficient." II p. 271

(GLASNIK,

Vol. 18, No. 5, 1953, Beograd.).

Pusin, N.

Rikovski, I.

SO: Monthly List of East European Accessions, Vol. 3, No. 3, Library of Congress,
March 1954, Uncl.

GRITSAYENKO, V. Ya.; SMILKO, M. K.

Removal of structural defects in stoppers and pouring heads
made by the plastic molding method. Ogneupory 20 no.3:137-
139 '55. (MLRA 8:8)

1. Kondrat'yevskiy ogneuporny zavod "Krasnaya zvezda"
(Refractory materials)

SMILKO, M.K.; FER, M.P.

Rapid complexometric method of determining the content of
 Fe_2O_3 and $\text{Al}_2\text{O}_3 \div \text{TiO}_2$ in refractory materials. Ogneupory 30
no.5:47 '55. (MIRA 18:5)

1. Kondrat'yevskiy shamotnyy zavod "Krasnaya Zvezda".

SMILKSTYN, A.O.

Using data of aeroradiometric surveying in searching for nonradioactive minerals and for purposes of geological mapping. Trudy SNIIGGIMS no.25: 72-80 '62.

(MIRA 16:4)

(Siberia—Aeronautics in surveying)

(Siberia—Geology—Maps)

SMILKSTYN, A.O.; TUTITSIN, Ye.M.

New data on phosphate-bearing Devonian sediments in the Gornyy
Altai. Min. syr'ie no.10:55-60 '64.

(MIRA 18:3)

SMILKSTYN, A.O.

Some geochemical characteristics of Middle Devonian acid effusives
in the Gornyy Altai. Trudy SNIIGGIMS no.35:42-47 '64. (MIRA 18:5)

1957, 11, 11.

How to rationalize unloading of trucks.

P. 27 (PADOMU LATVIJAS KOLCHOZNIKES) Riga, Latvia Vol. 9, No. 6, June 1957

SO: Monthly Index of East European Accessions (AMEI) Vol. 6, No. 11 November 1957.

ATTENTION, J.

Simple equipment for production of clay bricks.

1. 26 (PADOJUM LATIJAL KOICHOZNIIEKS) Riga, Latvia Vol. 9, No. 7, July 1957

SO: Monthly Index of East European Accessions (AEEI) Vol. 6, No. 11 November 1957.

SMILKTINS, J.

Simple equipment for preparing and transportation of concrete mixtures.

p. 18 (Padomju Latvijas Kolchoznieks) Vol. 9, Nr. 8, Aug. 1957, Riga, Latvia

SO: MONTHLY INDEX OF EAST EUROPEAN ACCESSIONS (EEAI) LC, VOL. 7, NO. 11, JAN. 1958

USSR/Human and Animal Physiology - Respiration.

T

Abs Jour : Ref Zhur Biol., No 3, 1959, 12848

Author : Grabenko, I.K., Smiller, R.R.

Inst : Rostov na Don Medical Institute

Title : Question of Oxygen-Carrying Capacity of the Blood in
Disturbance of the Acid-Base Balance

Orig Pub : Tr. Otchtn. nauchn. konferentsii (Rostovsk. n/D. med.
in-t) za 1956 g. Rostov-na-Donu, 1957, 317-320

Abstract : In 30 patients with cardiac insufficiency, diabetes,
and diseases of the kidney, the state of acidosis led
to a depression of the oxygen-carrying capacity of the
blood and a decrease in the O_2 saturation of arterial
and venous blood. There was a compensatory elevation
in the coefficient of O_2 utilization by the tissues in
subclinical acidosis; in cases of pronounced acidosis,

Card 1/2

USSR/Human and Animal Physiology - Respiration.

T

Abs Jour : Ref Zhur Biol., No 3, 1959, 12848

when the compensatory possibilities of the tissues were exhausted, along with a significant decrease in the oxygen-carrying capacity of the blood the coefficient of O_2 utilization was decreased.

Card 2/2

- 61 -

SMILER, M.R.

Results of the work of the traumatological center in Yuzhno-Sakhalinsk. Vop. travm. i ortop. no.13:37-39 '63.

(MIRA 18:2)

1. Zaveduyushchiy gorodskim travmatologicheskim punktom Yuzhno-Sakhalinska.

BARAYANTS, A.A.; SMILLER, M.R.; KOLESNIK, M.K.; BALYUK, O.N.; SINADSKIY, N.Ye.,
kand.med.nauk; GLUZMAN, Yu.D.; RUDENKO, G.D., kand.med.nauk; AKIMOVA,
Ye.A., promyshlenny vrach; SIDENKO, K.I.

Discussions. Vop. travm. i ortop. no.13:47-60 '63.

(MIRA 18:2)

1. Glavnyy vrach lechebnogo ob"yedineniya shakhty "Dolinskaya",
kombinata "Sakhalinugol'" (for Barayants). 2. Zaveduyushchiy
Yuzhno-Sakhalinskim gorodskim travmatologicheskim punktom (for
Smiller). 3. Kholmskoye upravleniye stroitel'noye upravleniye
Sakhalinshakhtostroya (for Kolesnik). 4. Doverennyy vrach
Dorozhnogo komiteta professional'nogo soyuza rabochikh
zheleznodorozhnogo transporta (for Balyuk). 5. Irkutskiy
gosudarstvennyy nauchno-issledovatel'skiy institut travmatologii
i ortopedii (for Sinadskiy). 6. Starshiy inspektor Gosudarstvennoy
avtomobil'noy inspeksii (for Gluzman). 7. Leningradskiy nauchno-
issledovatel'skiy institut travmatologii i ortopedii (for Rudenko).
8. Glavnyy vrach meditsinskogo ob"yedineniya goroda Shakhterska,
Sakhalinskaya oblast' (for Sidenko).

SMILLER. R.R.

17-Ketosteroid content in the urine of patients with cancer of the breast. Vop. onk. 11 no.10:39-43 '65.

(MIRA 18:10)

1. Iz Nauchno-issledovatel'skogo instituta rentgenologii, radiologii i onkologii Ministerstva zdravookhraneniya RSFSR, Rostov-na-Donu (direktor - A.K.Pankov; rukovoditel' - prof. V.V.Nikol'skiy).

ments and automatic models with thermistors. Mat. i
fiz. Bulg. 7 no.4:53-54. J1 Aug '64.

SMILGINSKI, D. A., Land Tech Sci -- (dis) "Intensification and basis of the form and parameters of working parts of drills for subsurface and broadcast seeding of grain crops," Tr. SA, 1960, 15 pp (Belorussian Sci-hes Institute of Soil Science, Academy of Agricultural Sciences USSR) (KL, 33-60, 145)

SMILOVIC, M.

"A new method of dyeing with Kubosoli dyes in long dye baths (knit goods)", p. 20,
(TEXTILE, Vol. 2, no. 7, July 1951, Bucuresti)

SO: Monthly List of East European Accession, Vol. 2, no. 8, Library of Congress,
August 1953, Uncl.

RUMANIA/Virology - Bacterial Viruses (Phages).

E-2

Abs Jour : Ref Zhur - Biol., No 15, 1958, 66924

Author : Sechter, I., Bercovici, C., Iosub, C., Smilovici, M.,
Corbers

Inst : Academy RFR.

Title : Typing of Typhoid Fever Bacteria of the Unclassified Group
of Vi- Strains. Communication I. A Determination of a
New Type of Bacteriophage Type of D-Group.

Orig Pub : Studii si cercetari stiint. Acad. RFR Fil Iasi, Med.
1956, 7, No 1, 221-225.

Abstract : No abstract.

Card 1/1

2

Shigella, M.

Country	ROMANIA
Category	Microbiology-Microbes Pathogenic for Man and Animal
Abstr. Jour	Ref Zhur - Biol., No.17, 1958, 3-148
Author	Perceval, C.; Zechter, I.; Ionescu, C.; Corbu, S.,
Institut.	
Title	Strains of Shigella flexneri of Four Types Isolated in Moldova
Orig. Pub.	Microbiol., Parasitol., et Epidemiol., 1957, Vol.3, No.6, 511-518
Abstract	See abstract
	Boleslogu, V.; Galloviu, M.

Card: 1/1

-45-

SMILOVICI, M.

Device for the rectification of spindle caps. p. 4

TEHNICA NOUA, Bucuresti, Vol 3, No. 35, Feb., 1956

SOE East European Accessions List(EEAL) Library of Congress, Vol 5, No. 7, July, 1956

SMILOVICI, M.

Smilovici, M; Chintescu, M. Role of the planner and technologist in increasing labor productivity and reducing production costs. p. 1. TEHNICA NOUA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor) Bucuresti. Vol. 3, no. 41, Mar. 1956.

SOURCE: East European Accessions List (E~~S~~AL), Library of Congress, Vol. 5, No. 8, August 1956.

SMILOVICI, I'.

Smilovici, M.; Chintescu, M. Hydromechanization of work in open
lime quarries. p. 1. TEHNICA NOUA. (Asociatia Stiintifica a
Inginerilor si Tehnicienilor) Bucuresti. Vol. 3, no. 41, Mar. 1956.

SOURCE: East European Accessions List (EEAL), Library
of Congress, Vol. 5, No. 8, August 1956.

SMILOVICI, M.

Smilovici, M; Chintescu, M. Simplification of the drive-control device on oscillating platforms and on barriers of underground ramps. p. 2. TEHNICA NOUA. (Asociatia Stiintifica a Inginerilor si Tehnicienilor) Bucuresti. Vol. 3, no. 41, Mar. 1956.

SOURCE: East European Accessions List (EEAL), Library of Congress, Vol. 5, No. 8, August 1956.

CASETTI, M. dr.; DASCALU, Maria, dr.; OSTAP, B. dr.; SMILOVICI, S., dr.;
PREDA, L. chim.; DUMITRIU, I., dr.; MUNTEANU, Elena, dr.

Clinical value of the quantitative study of bile sediment
collected at intervals of a minute. Med. intern.(Bucur.)
16 no.7:819-826 J1'64.

1. Lucrare efectuata in Clinica a IV-a medicala, Iasi (direc-
tor: conf. N.Goldenberg).

SUDZHAYEV, G.A.; SMILOVITSKAYA, G.I.

Experience in an inoculation detachment. Zdrav. Belor. 5 no.3:27-29 Mr '59.
(MIRA 12:7)

1. Sanepidstantsiya Stalinskogo rayona g. Minska.
(DIPHTHERIA)

SUDZHAJEV, G.A.; SHILOVITSKAYA, G.I.

Status of immunity to diphtheria in children in the Stalin
District of Minsk. Zdrav.Belor. 5 no.7:43-44 J1 '59.
(MIRA 12:9)

1. Sanepidstartsiya Stalinskogo rayona gor.Minska.
(MINSK--DIPHTHERIA--PREVENTIVE INOCULATION)

SUDZHAYEV, G.A.; SMILOVITSKAYA, G.I.

Epidemiology of diphtheia. Zdrav. Belor. 6 no.6:34-35 Je '60.
(MIRA 1318)

1. Sanepidstantsiya Stalinskogo rayona goroda Minska.
(MINSK—DIPHTHERIA)

SUDZHAYEV, G.A.; SMILOVITSKAYA, G.I.

Restoration of immunity to diphtheria lost after infectious diseases;
author's abstract. Zhur.mikrobiol.epid.i immun. 32 no.1:140-141
Ja '61. (MIRA 14:6)

1. Iz Sanitarno-epidemiologicheskoy stantsii Stalinskogo rayona
Minska.

(DIPHTHERIA)

SUDZHAYEV, G.A.; SMILOVITSKAYA, G.I.

Restoration of immunity to diphtheria lost following infectious diseases. Vop.okh.mat.i det. 7 no.4:34-37 Ap '62. (MIRA 15:11)

1. Iz rayonnoy sanitarno-epidemiologicheskoy stantsii Minska.
(COMMUNICABLE DISEASES)
(DIPHTHERIA—PREVENTIVE INOCULATION)

GLEBOV, Fedor Vasil'yevich; SMILOVITSKIY, L., red.; NOVIKOVA, V.,
tekhn. red.

[Headquarters of workers' initiative; from the work practice of
regular production conferences] Shtab rabochei initsiativy; iz
opyta raboty postoianno deistvuiushchikh proizvodstvennykh
soveshchaniy. Minsk, Gos.izd-vo BSSR Red. massovo-polit. lit-
ry, 1961. 28 p. (MIRA 15:1)

1. Predsedatel' Minskogo oblastnogo Soveta profsoyuzov (for
Glebov).

(Minsk Province—Works councils)

MIKONSKI, J. · OBRZALEK, O.

"Automatic heat control in stack furnaces in Trinec Ironwork of the Great October Socialist Revolution."

HUTNIK. Praha, Czechoslovakia. Vol. 9, no. 4, Apr. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Uncles

SMILYANETS, L. YE.
APPROVED FOR RELEASE: 08/25/2000. CIA-RDP86-00513R001651510006-6"

Abs Jour : Ref Zhur - Biol., No 1, 1958, No 1593

Author : L. Ye. Smilyanets

Inst : Not Given

Title : Watering System for Tomatoes on the Upper Terrace Soils of the Dnestr River

Orig Pub : Tr. Mold. ovoshche-kartof. orosit. opyt. st., Kishinev, Gosizdat Moldavii, 1956, 93-109

Abstract : Experiments at the Moldavia Vegetable Potato Station have established that increased soil moisture at the beginning of vegetation helps to form the surface root system which renders the plants less resistant to drought. The lack of moisture at the beginning of plant vegetation develops a strong root system directed deep into the soil. The greatest increase of yield amounted to 396 centners per hectare with the following correlation to the number of irrigations: 2 - before fruit-bearing and 8 - during the period of fruitbearing. For cultivating tomatoes on the Southern black soils of upper terraces of Dnester, it is recommended that there be 7 to 8 irrigations

Card : 1/2

GATAULLIN, M.F., red.; PETROV, K., red.; LEBEDEV, Ye.A., red.; RUMYANTSEV,
V.P., red.; SMILYANSKAYA, I.M., red.; KOZLOVSKAYA, G.M., red.;
BERESLAVSKAYA, L.Sh., tekhn. red.

[Modern Lebanon; a handbook] Sovremennyyi Liban; spravochnik. Mo-
skva, Izd-vo vostochnoi lit-ry, 1963. 222 p. (MIRA 16:2)

1. Akademiya nauk SSSR. Institut narodov Azii.
(Lebanon—Guidebooks)

SMILYANSKAYA

ICA

Technique of producing experimental rickets. R. S. Smilyanskaya. *Proc. Sci. Inst. Vitamin Research U. S. S. R.* 3, No. 1, 221-22 (1941).—The Steenbock, McCollum, Sherman and Zucker diets are not fully and reliably rachitogenic. Enrichment with Ca (to shift the Ca:P ratio in test animals) and adding casein or sugar gave no satisfactory improvement. From tests with 18 diets, under varying conditions of time and rat breeding, in 80 series (of which 8 series were controls on the Steenbock diet) it is clearly evident that the biol. unit depends on the compn. of the diet. In 5 series the rats had grown up in sunlit rooms, but their exposure to light had no perceptible effect on their subsequent sensitivity to rachitogenic diets. The severity of exptl. rickets does not depend on the season of the year. Whereas the Steenbock diet takes 3 weeks to produce mild rachitic symptoms, 3 diets were found which produce severe rickets in 15 days. Healing by vitamin therapy was then effected in 10 days. Two of the diets contained meat and a vitamin B (complex) concentrate; in the other the vitamin concentrate was replaced by rye flour. Julian F. Smith

ASD SLA METALLURGICAL LITERATURE CLASSIFICATION

150000 151000 152000 153000 154000 155000 156000 157000 158000 159000 160000 161000 162000 163000 164000 165000 166000 167000 168000 169000 170000 171000 172000 173000 174000 175000 176000 177000 178000 179000 180000 181000 182000 183000 184000 185000 186000 187000 188000 189000 190000 191000 192000 193000 194000 195000 196000 197000 198000 199000 200000 201000 202000 203000 204000 205000 206000 207000 208000 209000 210000 211000 212000 213000 214000 215000 216000 217000 218000 219000 220000 221000 222000 223000 224000 225000 226000 227000 228000 229000 230000 231000 232000 233000 234000 235000 236000 237000 238000 239000 240000 241000 242000 243000 244000 245000 246000 247000 248000 249000 250000 251000 252000 253000 254000 255000 256000 257000 258000 259000 260000 261000 262000 263000 264000 265000 266000 267000 268000 269000 270000 271000 272000 273000 274000 275000 276000 277000 278000 279000 280000 281000 282000 283000 284000 285000 286000 287000 288000 289000 290000 291000 292000 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SPILYANSKAYA, R. S.

USSR

Diets producing A-avitaminosis, R. S. Spilyanskaya
and K. Z. Tulchinskaya, *Trudy Vsesoyuznogo Nauchnogo
Issledovaniya Vitolaminy*, 4, 162-3 (1963).—A diet proved
most suitable and consisted of sugar 20%, wheat
flour 25, lard 10, dried yeast 10, oat groats 20, and salt
0.4%. B. S. Levina.

SMILYANSKIY, G.L.

Compensation of the nonlinearity of the ohmic resistance of wires using a method which involves stretching of the wires. Izv. vys. ucheb. zav.; radiotekh. 4 no. 2:207-209 Mr-Apr '61. (MIRA 14:5)

1. Rekomendovana kafedroy radiopriyemnykh ustroystv Kiyevskogo ordena Lenina politekhnicheskogo instituta.
(Electric wire) (Electronic apparatus and appliances)

SMILYANSKIY, V. I.

Smilyanskiy, V. I. -- "Investigation of Certain Mechanical Action Automatic Control Devices." Min Higher Education USSR, L'vov Polytechnic Inst., L'vov, 1955 (Dissertation for the Degree of Candidate in Technical Sciences)

SO: Knizhnaya Letopis', No. 23, Moscow, Jun 55, pp 87-104

3-58-6-24/34

AUTHOR: Smilyanskiy, V.I. Candidate of Technical Sciences

TITLE: An Automat for Assembling a Manometer Needle Unit (Avtomat dlya sborki uzla strelki manometra)

PERIODICAL: Vestnik Vysshey Shkoly, 1958, Nr 6, page 83 (USSR)

ABSTRACT: Under the supervision of Professor A.N. Rabinovich, the Chair for Technology of Machine Construction, Machine Tools and Instruments of the L'vov Polytechnical Institute has designed and manufactured an experimental model of an automatic device for assembling manometer needles. The needle (0.3 mm thick) has a hole 3 mm in diameter into which a brass plug with a conic central opening must be placed. The edges of the plug must then be pressed so that the plug and the needle, when assembled, are absolutely immovable in respect to each other, while the plug's central opening should not be distorted. The device is started by a three-phase motor of 0.08 kw capacity and a worm reducer. It can process 1,000 to 1,200 pieces per hour. There is one photo.

ASSOCIATION: L'vovskiy politekhnicheskii institut (L'vov Polytechnical Institute)

Card 1/1

S/112/59/000/015/047/068
A052/A002

Translation from: Referativnyy zhurnal, Elektrotehnika, 1959, No. 15, p. 172,
32169

AUTHOR: Smilyanskiy, V.I.

TITLE: An Investigation of Dynamic Errors of ¹⁴Inspection on an Automatic
Device With a Curvilinear, V-shaped Gauge (Checking of Cylindrical
Parts)

PERIODICAL: Nauchn. zap. L'vovsk. politekhn. in-t, 1958, No. 45, pp. 218-243

TEXT: Bibliographic entry.

Card 1/1

SOV/123-59-16-64783

Translation from: Referativnyy zhurnal. Mashinostroyeniye, 1959, Nr 16, p 159 (USSR)

AUTHOR: Smilyanskiy, V.I.

TITLE: On the Problem of Determining the Calculated (Planned) Accuracy of Automatic Control Devices.

PERIODICAL: Nauchn. zap. L'vovsk. politekh. in-t, 1958, vyp. 45, 283 - 288

ABSTRACT: A calculation method of determining the accuracy of automatic control devices is suggested, which is based on the criterion of the "negligible error" well-known in metrology. It is stated that in assessing the errors according to the Gauss law the calculated limit errors of the method of measurement must be negligibly small in comparison with the tolerance margin of the machine parts and should amount to 0.44δ , where δ is half of the tolerance margin. The main error components of the method (errors of the automatic control device, of reference gages and temperature errors) as well as the errors of the automatic control device itself (errors of the pick-up, errors resulting from the measuring stress and adjustment errors) are analyzed. When designing the automatic device, errors of the control method can be considered as resulting only from

Card 1/2

S/112/59/000/015/048/068
A052/A002

Translation from: Referativnyy zhurnal, Elektrotehnika, 1959, No. 15, p. 172,
32170

AUTHOR: Smilyansky, V.I.

TITLE: The Recurrence Rate of ¹⁴Inspections on ¹⁴Automatic Inspection Devices ✓

PERIODICAL: Nauchn. zap. L'vovsk. politekhn. in-t, 1958, No. 45, pp. 289-297

TEXT: Bibliographic entry.

Card 1/1

RABINOVICH, Avram Nakhimovich; BESPALOV, Konstantin Ivanovich;
ZLATOGURSKIY, Raymond Raymondovich; LUZINOV, Aleksey
Nikolayevich; SMILYANSKIY, Vitaliy Ivanovich; GREBEN',
Yu.I., inzh., red. vyp.; FURER, P.Ya., red.;
GORNOSTAYPOL'SKAYA, M.S., tekhn. red.

[Automatic checking in the manufacture of machines and
instruments] Avtomatizatsiya kontrolya v mashinostroyeni i
priborostroyeni. Moskva, Mashgiz, 1963. 122 p.

(MIRA 16:9)

(Machinery industry) (Instrument manufacture)
(Automatic control)

L 00304-66 EWT(1)/EWP(m)/EPA(sp)-2/EPA(w)-2/T-2/EHA(m)-2 IJP(c)

ACCESSION NR: AP5016649

UR/0382/65/000/002/0023/0030

533.951 : 538.4

AUTHOR: Moiseyev, S. S.; Smilyanskiy, V. R.

TITLE: Problem of wave transformation in magnetohydrodynamics

SOURCE: Magnitnaya gidrodinamika, no. 2, 1965, 23-30

TOPIC TAGS: MHD shock wave, plasma wave propagation

ABSTRACT: Treating the plasma in a magnetohydrodynamic approximation, the problem of transformation of waves is investigated. First, the methods are required approximations for various wave transformation problems are briefly reviewed. The problem is formulated in the magnetohydrodynamic equations with appropriate boundary conditions. Various forms of solutions are employed and dispersion relations obtained. Two problems, with magnetic fields, one parallel and one perpendicular to the density variations, are discussed. It is shown that in the second case energy transfer can occur between modes. Results are compared with published methods.

"We thank R. Z. Sagdeyev and V. L. Pokrovskiy for their helpful discussion." Orig. art. has: 32 formulas, 2 figures.

ASSOCIATION: none

SUBMITTED: 31Jan65

Card 1/1

ENCL: 00

NO REF SOV: 006

SUB CODE: ME

OTHER: 004